

## FORM PTO-1449

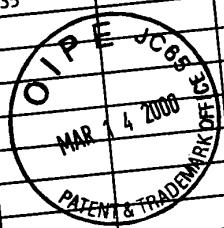
## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0652.1630001/RWE/KKVAPPLICATION NO.  
09/462,625APPLICANT  
GEORGIEV et al.INTERNATIONAL FILING DATE  
July 10, 1998GROUP  
To be assigned

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SR	AA1	5,521,291	05/28/1996	Curiel et al.	530	391.7	12/15/1993
	AB1	5,547,932	08/20/1996	Curiel et al.	435	65	09/23/1992
↓	AC1	5,578,461	11/26/1996	Sherwin et al.	435	69.1	08/05/1993
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
SR	AL1	WO 90/14092	11/29/1990	WIPO	—	—	— Yes
	AM1	WO 93/09222	05/13/199	WIPO	—	—	— No
↓	AN1	WO 94/12650	06/09/1994	WIPO	—	—	— Yes
	A01 ✓	WO 97/29765	08/21/1997	WIPO	—	—	— No
↓	AP1 ✓	WO 97/18454	05/22/1997	WIPO	—	—	— Yes

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR	AR	1	Aggarwal, B.B. et al., "Primary Structure of Human Lymphotoxin Derived from 1788 Lymphoblastoid Cell Line," J. Biol. Chem. 260:2334-2344 (1985).
	AS	1	Armentano, D. et al., "Expression of human factor IX in rabbit hepatocytes by retrovirus-mediated gene transfer: Potential for gene therapy of hemophilia," Proc. Natl. Acad. Sci. USA 87:6141-6145 (1990).
↓	AT	1	Armitage, R.J., "Tumor necrosis factor receptor superfamily members and their ligands," Curr. Opin. Immunol. 6:407-413 (1994).

DATE CONSIDERED

3/8/02

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
SK	EP 0 394 827 A1	10/31/1990	Europe	—	—	Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SK	AR	2	Armitage, R.J. et al., "Identification of a source of biologically active CD40 ligand," Eur. J. Immunol. 22:2071-2076 (1992).
	AS	2	Axelrod, J.H. et al., "Phenotypic correction of factor IX deficiency in skin fibroblasts of hemophilic dogs," Proc. Natl. Acad. Sci. USA 87:5173-5177 (1990).
	AT	2	Barnett, S.C. and Eccles, S.A., "Studies of mammary carcinoma metastasis in a mouse model system. I: Derivation and characterization of cells with different metastatic properties during tumour progression in vivo," Clin. Expl. Metast. 2:15-36 (1984).

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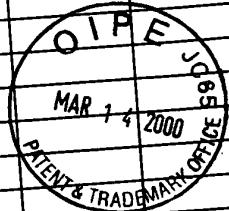
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR	AR	3	Basset, P. et al., "A novel metalloproteinase gene specifically expressed in stromal cells of breast carcinomas," Nature 348:699-704 (1990).
	AS	3	Bernhard, E.J. et al., "Direct evidence linking expression of matrix metalloproteinase 9 (92-kDa gelatinase/collagenase) to the metastatic phenotype in transformed rat embryo cells," Proc. Natl Acad. Sci. USA 91:4293-4297 (1994).
	AT	3	Blankenstein, T. et al., "Tumor Suppression after Tumor Cell-targeted Tumor Necrosis Factor $\alpha$ Gene Transfer," J. Exp. Med. 173:1047-1052 (1991).

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	AP						No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SK	AR	4	Bontempo, F.A. et al., "Liver Transplantation in Hemophilia A," Blood 69(6):1721-1724 (1987).
	AS	4	Browning, J. and Ribolini, A., "Studies on the Differing Effects of Tumor Necrosis Factor and Lymphotoxin on the Growth of Several Human Tumor Lines," J. Immunol. 143:1859-1867 (1989).
	AT	4	Browning, J.L. et al., "Lymphotoxin $\beta$ , a Novel Member of the TNF Family That Forms a Heteromeric Complex with Lymphotoxin on the Cell Surface," Cell 72:847-856 (1993).

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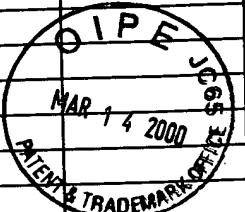
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR	AR	5	Cohen, J.J. and Duke, R.C., "Apoptosis and Programmed Cell Death in Immunity," <i>Annu. Rev. Immunol.</i> 10:267-293 (1992).
	AS	5	de Kossodo, S. et al., "Tumor Necrosis Factor $\alpha$ Is Involved in Mouse Growth and Lymphoid Tissue Development," <i>J. Exp. Med.</i> 176:1259-1264 (1992).
Y	AT	5	Drumm, M.L. et al., "Correction of the Cystic Fibrosis Defect <i>In Vitro</i> by Retrovirus-Mediated Gene Transfer," <i>Cell</i> 62:1227-1233 (1990).

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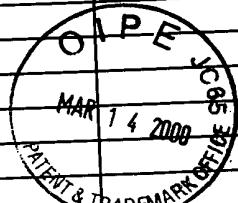
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AN						Yes
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AP						Yes

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SIR	AR	6	Ebralidze, A.K. et al., "Isolation of cDNA Clones which are Specifically Transcribed in Metastatic Tumor Cells," Genetika (USSR) 25:932-936 (1989).
	AS	6	Fidler, I.J. and Hart, I.R., "Biological Diversity in Metastatic Neoplasms: Origins and Implications," Science 217:998-1003 (1982).
↓	AT	6	Fink, J.K. et al., "Correction of glucocerebrosidase deficiency after retroviral-mediated gene transfer into hematopoietic progenitor cells from patients with Gaucher disease," Proc. Natl. Acad. Sci. 87:2334-2338 (1990).

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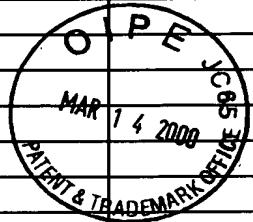
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	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
SR	AR	Z	Gardner, R.L., "Mouse chimaeras obtained by the injection of cells into the blastocyst," Nature 220:596-597 (1968).				
	AS	Z	Golstein, P. et al., "Cell Death Mechanisms and the Immune System," in Immunol. Rev. 121:29-65 (1991).				
	AT	Z	Hagen, T.J. et al., NCBI Entrez, GenBank Report, Accession No. M29288, (February 1994).				
EXAMINER <i>12</i>						DATE CONSIDERED <i>3/18/02</i>	
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
SR	AR	8	Hagen, T.J. and Shimkets, I.J., "Nucleotide sequence and transcriptional products of the csg locus of <i>Myxococcus xanthus</i> ," <i>J. Bacteriol.</i> 172:15-23 (1990).				
↓	AS	8	Harrington, E.A. et al., "c-Myc-induced apoptosis in fibroblasts is inhibited by specific cytokines," <i>EMBO J.</i> 13(14):3286-3295 (1994).				
↓	AT	8	Hock, H. et al., "Mechanisms of rejection induced by tumor cell-targeted gene transfer of interleukin 2, interleukin 4, interleukin 7, tumor necrosis factor, or interferon γ," <i>Proc. Natl. Acad. Sci. USA</i> 90:2774-2778 (1993).				
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	AL						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SK	AR	9	Ishibashi, K. et al., "Tumor Necrosis Factor-β in the Serum of Adult T-Cell Leukemia With Hypercalcemia," <i>Blood</i> 77(11):2451-2455 (1991).
	AS	9	Kang, D. et al., "A peptidoglycan recognition protein in innate immunity conserved from insects to humans," <i>Proc Natl. Acad. Sci. USA</i> 95:10078-10082 (August 1998).
	AT	9	Kerbella, R.S., "Growth dominance of the metastatic cancer cell: cellular and molecular aspects," <i>Advances in Cancer Research</i> 55:87-131 (1990).

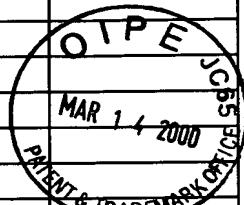
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR	AR	10	Keski-Oja, J. and Moses, H.L., "Growth Inhibitory Polypeptides in the Regulation of Cell Proliferation," <i>Med. Biol.</i> 65:13-20 (1987).
AS	AS	10	Kiselev, S.L. et al., "Molecular cloning and characterization of the mouse tag7 gene encoding a novel cytosine," <i>J. Biol. Chem.</i> 273:18633-18639 (July 1998).
AT	AT	10	Kono, D.H. et al., "Lupus susceptibility loci in New Zealand mice," <i>Proc. Natl. Acad. Sci. USA</i> 91:10168-10172 (1994).

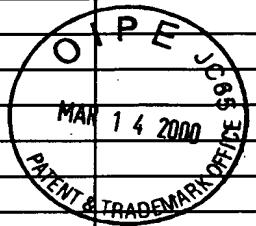
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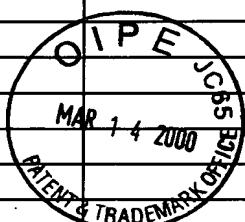
<i>SR</i>	AR	<u>11</u>	Kustikova, O. et al., "Cloning and preliminary characterization of new gene tag7," <i>Pharm. Toxicol.</i> 77(Suppl. II):38 (1995).
	AS	<u>11</u>	Kustikova, O. et al., "Cloning of the tag7 Gene Expressed in Metastatic Mouse Tumors," <i>Genetika (USSR)</i> 32:621-628 (May 1996).
	AT	<u>11</u>	Kustikova, O. et al., NCBI Entrez Nucleotide, Genbank Report, Accession No. X86374 (July 1998).

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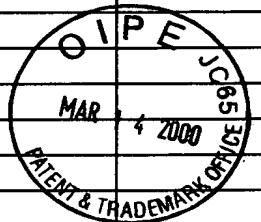
SR	AR	12	Lerrick, J.W. and Wright, S.C., "Cytotoxic mechanism of tumor necrosis factor- $\alpha$ ," FASEB J. 4:3215-3223 (1990).
	AS	12	Law, P.K. et al., "Dystrophin production induced by myoblast transfer therapy in Duchenne muscular dystrophy," Lancet 336:114-115 (1990).
↓	AT	12	Liang, P. and Pardee, A.B., "Differential display of eukaryotic messenger RNA by means of the polymerase chain reaction," Science 257:967-971 (1992).

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SR	AR	13	Liotta, L.A. et al., "Tumor Invasion and the Extracellular Matrix," <i>Lab. Invest.</i> 49:636-649 (1983).
	AS	13	Marra, M. et al., NCBI Entrez-Nucleotide, GenBank Report, Accession No. AA238564 (March 1997).
↓	AT	13	Morel, L. et al., "Polygenic Control of Susceptibility to Murine Systemic Lupus Erythematosus," <i>Immunity</i> 1:219-229 (1994).

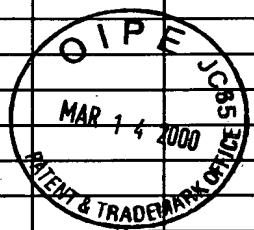
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>SR</i>	AR	14	Morgan, J.E. et al., "Normal Myogenic Cells from Newborn Mice Restore Normal Histology to Degenerating Muscles of the mdx Mouse," <i>J. Cell Biol.</i> 111:2437-2449 (1990).
<i>14</i>	AS	14	Nedospasov, S.A. et al., "The genes for tumor necrosis factor (TNF-alpha) and lymphotoxin (TNF-beta) are tandemly arranged on chromosome 17 of the mouse," <i>Nucl. Acids Res.</i> 14:7713-7725 (1986).
<i>14</i>	AT	14	Ohta, M. et al., "Two forms of transforming growth factor-β distinguished by multipotential haematopoietic progenitor cells," <i>Nature</i> 329:539-541 (1987).

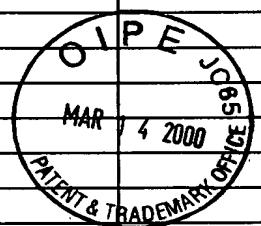
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 0652.1630001/RWE/KKV		APPLICATION NO. 09/462,625	
		APPLICANT GEORGIEV et al.			
		INTERNATIONAL FILING DATE July 10, 1998		GROUP To be assigned	

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR	AR	15	Palmer, T.D. et al., "Production of Human Factor IX in Animals by Genetically Modified Skin Fibroblasts: Potential Therapy for Hemophilia B," <i>Blood</i> 73:438-445 (1989).
	AS	15	Partridge, T.A. et al., "Conversion of mdx myofibres from dystrophin-negative to -positive by injection of normal myoblasts," <i>Nature</i> 337:176-179 (1989).
	AT	15	Paul, N.L. and Ruddle, N.H., "Lymphotoxin," <i>Ann. Rev. Immunol.</i> 6:407-438 (1988).

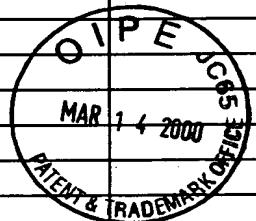
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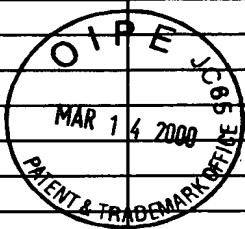
SR	AR	16	Pimentel, E., <i>Handbook of Growth Factors, Volume I: General Basic Aspects</i> , CRC Press, Boca Raton, FL, pp. 28-34 (1994).
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	AT	16	Pokholok, D.K. et al., "Cloning and expression analysis of the murine lymphotoxin β gene," <i>Proc. Natl. Acad. Sci. USA</i> 92:674-678 (1995).

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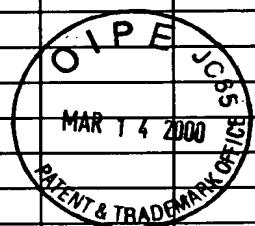
<i>SR</i> 	AR	17	Qin, Z. and Blankenstein, "Tumor Growth Inhibition Mediated by Lymphotoxin: Evidence of B Lymphocyte Involvement in the Antitumor Response," <i>Canc. Res.</i> 55:4747-4751 (1995).
	AS	17	Qin, Z. <i>et al.</i> , "Human Lymphotoxin Has at Least Equal Antitumor Activity in Comparison to Human Tumor Necrosis Factor But Is Less Toxic in Mice," <i>Blood</i> 85(10):2779-2785 (1995).
	AT	17	Rich, D.P. <i>et al.</i> , "Expression of cystic fibrosis transmembrane conductance regulator corrects defective chloride channel regulation in cystic fibrosis airway epithelial cells," <i>Nature</i> 347:358-363 (1990).

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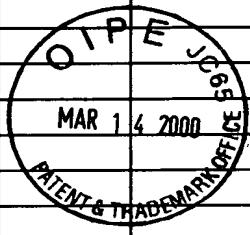
SKR	AR	18	Rosenberg, S.A. et al., "A New Approach to the Adoptive Immunotherapy of Cancer with Tumor-Infiltrating Lymphocytes," <i>Science</i> 233:1318-1321 (1986).
	AS	18	Rosenberg, S.A. et al., "Use of Tumor-Infiltrating Lymphocytes and Interleukin-2 in the Immunotherapy of Patients with Metastatic Melanoma," <i>N. Engl. J. Med.</i> 319:1676-1680 (1988).
↓	AT	18	Rosenberg, S.A. et al., "Gene Transfer into Humans - Immunotherapy of Patients with Advanced Melanoma, Using Tumor-Infiltrating Lymphocytes Modified by Retroviral Gene Transduction," <i>N. Engl. J. Med.</i> 323:570-578 (1990).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>SR</i>	AR	19	Rubin, B.Y. et al., "Nonhematopoietic Cells Selected for Resistance to Tumor Necrosis Factor Produce Tumor Necrosis Factor," <i>J. Exp. Med.</i> 164:1350-1355 (1986).
	AS	19	Sarin, A. et al., "Cytotoxic Effect of TNF and Lymphotoxin on T Lymphoblasts," <i>J. Immunol.</i> 155:3716-3718 (1995).
	AT	19	Sato, H. et al., "A matrix metalloproteinase expressed on the surface of invasive tumour cells," <i>Nature</i> 370:61-65 (1994).

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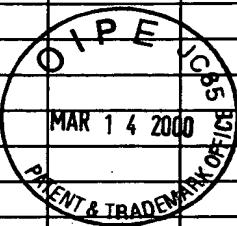
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<i>SR</i>	AR	20	Schirrmacher, V., "Cancer Metastasis: Experimental Approaches, Theoretical Concepts, and Impacts for Treatment Strategies," <i>Adv. Cancer Res.</i> 43:1-73 (1985).				
	AS	20	Senin, V.M. et al., "A New Line of Metastatic Murine Carcinosarcoma," <i>Experim. Oncol. (USSR)</i> 5:35-39 (1983).				
	AT	20	Senin, V.M. et al., "New Organotropic-Metastatic Transplanted Tumors of Mice and Their Use for Studying Laser Effects on Dissemination," <i>Vestn. Akad. Med. Nauk (SSSR)</i> 0:85-91 (1984).				

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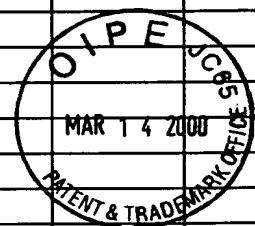
<i>SRZ</i>	AR	<u>21</u>	Sheehan, K.C.F. <i>et al.</i> , "Generation and Characterization of Hamster Monoclonal Antibodies that Neutralize Murine Tumor Necrosis Factors," <i>J. Immunol.</i> 142:3884-3893 (1989).
	AS	<u>21</u>	Smith, C.A. <i>et al.</i> , "The TNF Receptor Superfamily of Cellular and Viral Proteins: Activation, Costimulation, and Death," <i>Cell</i> 76:959-962 (1994).
	AT	<u>21</u>	Sonnenberg, A. <i>et al.</i> , "In Vitro Differentiation and Progression of Mouse Mammary Tumor Cells," <i>Cancer Res.</i> 46:5913-5922 (1986).

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AO							Yes No
AP							Yes No

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<i>SR</i>	AR	<u>22</u>	Sorge, J. et al., "Complete correction of the enzymatic defect of type I Gaucher disease fibroblasts by retroviral-mediated gene transfer," Proc. Natl. Acad. Sci. USA 84:906-909 (1987).
	AS	<u>22</u>	Spies, T. et al., "Genes for the tumor necrosis factors $\alpha$ and $\beta$ are linked to the human major histocompatibility complex," Proc. Natl. Acad. Sci. 83:8699-8702 (1986).
<i>AT</i>	AT	<u>22</u>	Springgs, D.R. et al., "Tumor Necrosis Factor Expression in Human Epithelial Tumor Cell Lines," J. Clin. Invest. 81:455-460 (1988).

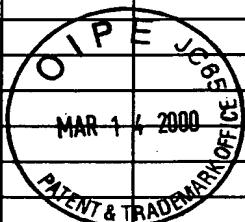
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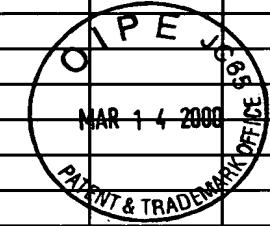
<i>JK</i>	AR	<u>23</u>	Stettler-Stevenson, W.G. et al., "Tumor cell interactions with the extracellular matrix during invasion and metastasis," <i>Annu. Rev. Cell Biol.</i> 9:541-573 (1993).
	AS	<u>23</u>	Tanaka, M. et al., "Expression of the functional soluble form of human Fas ligand in activated lymphocytes," <i>EMBO J.</i> 14:1129-1135 (1995).
	AT	<u>23</u>	Toh, Y. et al., "A Novel Candidate Metastasis-associated Gene, <i>mta1</i> , Differentially Expressed in Highly Metastatic Mammary Adenocarcinoma Cell Lines," <i>J. Biol. Chem.</i> 269:22958-22963 (1994).

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SR	AR	24	Traunecker, A. et al., "Soluble CD4 molecules neutralize human immunodeficiency virus type 1," Nature 331:84-86 (January 1988).
	AS	24	Vassalli, P., "The Pathophysiology of Tumor Necrosis Factors," Ann. Rev. Immunol. 10:411-452 (1992).
	AT	24	Wiley, S.R. et al., "Identification and Characterization of a New Member of the TNF Family that Induces Apoptosis," Immunity 3:673-682 (1995).

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<i>SKR</i>	AR	<u>25</u>	Wolf, C. <i>et al.</i> , "Stromelysin 3 belongs to a subgroup of proteinases expressed in breast carcinoma fibroblastic cells and possibly implicated in tumor progression," <i>Proc. Natl. Acad. Sci. USA</i> 90:1843-1847 (1993).
<i>AS</i>	AS	<u>25</u>	Zhang, L. <i>et al.</i> , "Gene Expression Profiles in Normal and Cancer Cells," <i>Science</i> 276:1268-1271 (May 1997).
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FORM PTO-1449				ATTY. DOCKET NO. 1652.1630001	APPLICATION NO. 1652,625		
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